

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

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1-16 (canceled)

Claim 17 (currently amended): A battery obtained by a method comprising the steps of:

a) providing a composite of a solid polymer electrolyte film and a thin film-shaped porous electrode obtained by a method comprising the steps of:

C) i) providing said solid polymer electrolyte film;  
ii) providing said porous electrode comprising an electrochemically active substance;

iii) contacting said solid polymer electrolyte film with said porous electrode; and

iv) reducing pressure inside said porous electrode to fix said solid polymer electrolyte film to said porous electrode;

b) superposing a second electrode on said solid polymer electrolyte film on a side opposite of said porous electrode;

b<sub>c</sub>) impregnating said porous electrode in said composite under reduced pressure with an electrolytic solution.

Claim 18 (currently amended): A battery obtained by a method comprising the steps of:

a) providing a composite of a solid polymer electrolyte film and a thin film-shaped porous electrode obtained by a method comprising the steps of:

i) coating on an electrode surface of said thin film-shaped porous electrode with a polymerizable compound which is converted to said solid polymer electrolyte or a pre-solid polymer electrolyte upon polymerization; and

ii) reducing pressure inside said porous electrode after superposing said electrode surface coated with said polymerization compound onto said solid polymer electrolyte film,

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*cont'd*  
b) superposing a second electrode on said solid polymer electrolyte film on a side opposite of said porous electrode;

bc) impregnating said porous electrode in said composite under reduced pressure with an electrolytic solution.

Claim 19 (previously presented): The battery as claimed in claim 17, wherein said solid polymer electrolyte film of said composite is obtained by polymerizing a composition comprising a solvent having dissolved therein a polymerizable compound.

Claim 20 (previously presented): The battery as claimed in claim 18, wherein said solid polymer electrolyte film of said composite is obtained by polymerizing a

composition comprising a solvent having dissolved therein a polymerizable compound.

Claim 21 (previously presented): The battery as claimed in claim 17, wherein said polymer electrolyte film has an ion conductivity at room temperature of  $10^{-5}$  S/cm or more.

Claim 22 (previously presented): The battery as claimed in claim 18, wherein said polymer electrolyte film has an ion conductivity at room temperature of  $10^{-5}$  S/cm or more.

Claim 23 (previously presented): The battery as claimed in claim 17, wherein said solid polymer electrolyte film contains a cross-linking polymer having a urethane bond and an oxyalkylene group.

Claim 24 (previously presented): The battery as claimed in claim 18, wherein said solid polymer electrolyte film contains a cross-linking polymer having a urethane bond and an oxyalkylene group.

Claim 25 (previously presented): The battery as claimed in claim 18, wherein said polymerizable compound coated on said porous electrode has a urethane bond and an oxyalkylene group.

Claim 26 (previously presented): A battery according to claim 19, wherein said solid polymer electrolyte film contains no electrolyte salt.

Claim 27 (previously presented): A battery according to claim 20, wherein said solid polymer electrolyte film contains no electrolyte salt.

Claim 28 (previously presented): The battery according to claim 26, wherein said electrolytic solution comprises a polymerizable compound and an electrolyte salt and said polymerizable compound is polymerized to cure after impregnation under reduced pressure.

Claim 29 (previously presented): The battery according to claim 27, wherein said electrolytic solution comprises a polymerizable compound and an electrolyte salt and said polymerizable compound is polymerized to cure after impregnation under reduced pressure.

Claim 30 (currently amended): A battery obtained by a method comprising the steps of:

a) providing a composite of a solid polymer electrolyte film and a thin film-porous electrode obtained by a method comprising the steps of:

i) providing said solid polymer electrolyte film;

ii) providing said porous electrode comprising an electrochemically active substance;

iii) contacting said solid polymer electrolyte film with said porous electrode; and

iv) reducing pressure inside said porous electrode to fix said solid polymer electrolyte film to said porous electrode;

b) superposing a second electrode on said solid polymer electrolyte film on a side opposite of said porous electrode;

bc) impregnating said porous electrode of said composite with an electrolytic solution which has a concentration of an electrolyte salt greater than a concentration at which the electrolytic solution has a maximum ion conductivity,

wherein said solid polymer electrolyte film of said composite is obtained by polymerizing a composition comprising a solvent having dissolved therein a polymerizable compound.

Claim 31 (currently amended): A battery obtained by a method comprising the steps of:

a) providing a composite of a solid polymer electrolyte film and a thin film-porous electrode obtained by a method comprising the steps of:

i) coating on an electrode surface of said porous electrode with a polymerizable compound which is converted to said solid polymer electrolyte or a pre-

solid polymer electrolyte upon polymerization; and

ii) reducing pressure inside said porous electrode after superposing said electrode surface coated with said polymerization compound onto said solid polymer electrolyte film;

b) superposing a second electrode on said solid polymer electrolyte film on a side opposite of said porous electrode;

bc) impregnating said porous electrode of said composite with an electrolytic solution which has a concentration of an electrolyte salt greater than a concentration at which the electrolytic solution has a maximum ion conductivity,

wherein said solid polymer electrolyte film of said composite is obtained by polymerizing a composition comprising a solvent having dissolved therein a polymerizable compound.

Claim 32 (previously presented): The battery according to claim 30, wherein said electrolytic solution comprises a polymerizable compound and an electrolyte salt and said polymerizable compound is polymerized to cure after impregnation under reduced pressure.

Claim 33 (previously presented): The battery according to claim 31, wherein the electrolytic solution comprises a polymerizable compound and an electrolyte salt and the polymerizable compound is polymerized to cure after the impregnation under

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reduced pressure.

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